PATENT

Attorney Docket No.: WEAT/0499

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Claims:

1. A sand screen for use in a wellbore, comprising:

a length of tubular having perforations therethrough; and

a filtering member disposed around an outer wall of the tubular and covering

at least some of the perforations, the filtering member comprising a wire wound

around the outer wall to form a substantially seamless tubular shape.

2. The sand screen of claim 1, wherein the wire has offset overlapping portions.

3. The sand screen of claim 1, wherein overlapping portions of the wire are

substantially non-offset.

4. The sand screen of claim 1, wherein the filtering member further comprises a

mandrel that the wire is wound around.

5. The sand screen of claim 1, wherein the filtering member further comprises a

mandrel that the wire is wound around, the mandrel having end rings separated by

longitudinal members.

6. The sand screen of claim 1, wherein the wire is a multifilament wire.

7. The sand screen of claim 1, further comprising a seal at each end of the

filtering member.

8. The sand screen of claim 1, wherein the filtering member is sintered.

9. The sand screen of claim 1, wherein the filtering member further comprises

sized particles packed in an annular area between the substantially seamless

tubular shape and a second tubular member having apertures therethrough.

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The sand screen of claim 9, wherein the second tubular member is wound 10.

wire.

11. A method for assembling a sand screen, comprising:

rotating a mandrel; and

winding a wire around the mandrel into a tubular shape having a wall defined

by overlapping sections of the wire.

12. The method of claim 11, wherein the mandrel is a perforated tubular.

13. The method of claim 11, further comprising removing the mandrel from the

tubular shape.

The method of claim 11, further comprising positioning the mandrel around an 14.

outer wall of a tubular having perforations therethrough, thereby covering at least

some of the perforations.

15. The method of claim 11, wherein the winding the wire offsets overlapping

portions of the wire.

16. A method for assembling a sand screen, comprising:

winding a wire into a substantially seamless tubular shape to provide a

filtering member;

positioning the filtering member around an outer wall of a tubular having

perforations therethrough thereby covering at least some of the perforations; and

circumferentially sealing the filtering member to the tubular at each end of the

filtering member.

The method of claim 16, further comprising sintering the filtering member 17.

thereby diffusion bonding contact points of the wire.

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- 18. The sand screen of claim 16, wherein the winding the wire offsets overlapping portions of the wire.
- 19. A method for assembling a sand screen, comprising:

winding a wire to form a coil in a substantially seamless tubular shape;

positioning the coil relative to a first tubular having a different diameter than the coil to provide an annular area between the coil and the first tubular;

packing the annular area with sized particles to provide a packing;

sealing ends of the annular area thereby retaining the packing to provide a filtering member;

positioning the filtering member around an outer wall of a second tubular having perforations therethrough thereby covering at least some of the perforations; and

circumferentially sealing the filtering member to the tubular at each end of the filtering member.

- 20. The method of claim 19, wherein the first tubular is wound wire.
- 21. The method of claim 19, wherein the first tubular is selected from the group consisting of slotted tubing, wire wrapped screen, wire mesh, and premium screen.